

AMENDED CLAIMS

Claim 1 (currently amended) Double burner for gas cookers, of the type provided with multiple concentric flame crowns, which comprises:

one head (T) with multiple concentric flame crowns, a first flame crown of external flames (FE) and a second flame crown of central flames (FC);
one circular body (1) that contains having a bottom and partitions (9) used to define two different, not-communicating channels, a first channel (E) used to supply gas to the crowns of external flames (FE) and a second central one channel (C) is to supply gas to the central flames (FC);

two separate, not-communicating gas inlets (3 and 4), an upper inlet (3) and a lower inlet (4), both inlets being situated on the bottom of the body (1), the upper inlet being used to supply gas to the aforementioned channels (C and E) selectively second channel and the lower inlet being used to supply gas to the first channel, the upper inlet (3) exactly ending in the centre of the body (1) and the lower inlet (4) going extending beyond the centre of the body;

burner characterized by the fact that having a vertical channel (3a) branches branching off from the upper inlet (3), which is said vertical channel (3a) being provided with the a first gas nozzle (5) designed to introduce gas into the second central channel (C) that supplies the central flames (FC), while, a diverging pair of ascending channels (4a) branches branching off from the lower inlet, which is provided with nozzles (6) a respective nozzle (6) being disposed in each ascending channel designed to introduce gas into the first channel (E) that supplies the external flames (FE); it being provided that; a Venturi chamber (5a) with vertical axis is situated

downstream the first nozzle (5), and a pair of Venturi chambers (6a) each with inclined axis is situated downstream ~~the pair~~ each of the nozzles (6).

Claim 2 (currently amended) Burner as defined in claim 1, characterized by the fact that wherein the head (T) is composed of a lower dish (7) and an upper dish (8, 80) that match perfectly, the lower dish (7) having a truncated conical shape and a stepped external border (7a) that acts as support and centering for the upper dish (8, 80), which is provided with the upper dish having a stepped perimeter collar (8a) and finds a second support and centering in the flat flange (9a) situated at the top of the partition walls (9) that protrude, a partition having a top and walls (9), a flat flange (9a) being formed on the top of the partition walls, the flange providing support and centering for the upper dish, the flange protruding from the centre of the body (1) and separate separating the channels (C and E).

Claim 3 (currently amended) Burner as defined in claim 2, characterized by the fact that wherein the lower dish (7) and the upper dish (8, 80) feature semi-conduits (7b and 8b), respectively, which form the Venturi chambers (6a).

Claim 4 (currently amended) Burner as defined in claim 2, characterized by the fact that it comprises wherein a V-shaped deflector wall (10) is formed on the lower dish (7), the deflector wall being situated downstream of the chambers (6a), wherein which favours the bifurcation of the air-gas flow coming from the chambers (6a), is bifurcated and which is conveyed inside a semi-circular corridor (11) that feeds the concentric external flame (FC).

Claim 5 (currently amended) Burner as defined in claim 4, characterised by the fact that wherein the head (T) comprises an annular cap (13) and a circular cap (14) used to close

the corridor (11) and the Venturi chamber (5), respectively; ~~it being provided that the upper dish~~ (8) is provided with toothed crowns (12) shaped in such a way as to give a horizontal direction to the flames, together with the caps (13 and 14).

Claim 6 (currently amended) Burner as defined in claim 4, ~~characterized by the fact that wherein~~ the head (T) comprises an annular cap (130) and a circular cap (140) that close the corridor (11) and the Venturi chamber (5), respectively; ~~it being provided that the upper dish~~ (80) has having three toothed crowns (12) shaped in such a way as to give a vertically inclined direction to the flames, together with the caps (130 and 140).

Claim 7 (currently amended) Burner as defined in claim 1, ~~characterised by the fact that it is provided with wherein a hole (15) with having a vertical axis on with respect to the center of the body (1) in central position that starts is formed from the lower gas inlet (4), moves up and ends terminating in the coaxial channel (3a) with the nozzle (5) and additionally characterised by the fact that the upper conduit (3) gas inlet (3) is being blocked in the presence of the hole (15).~~